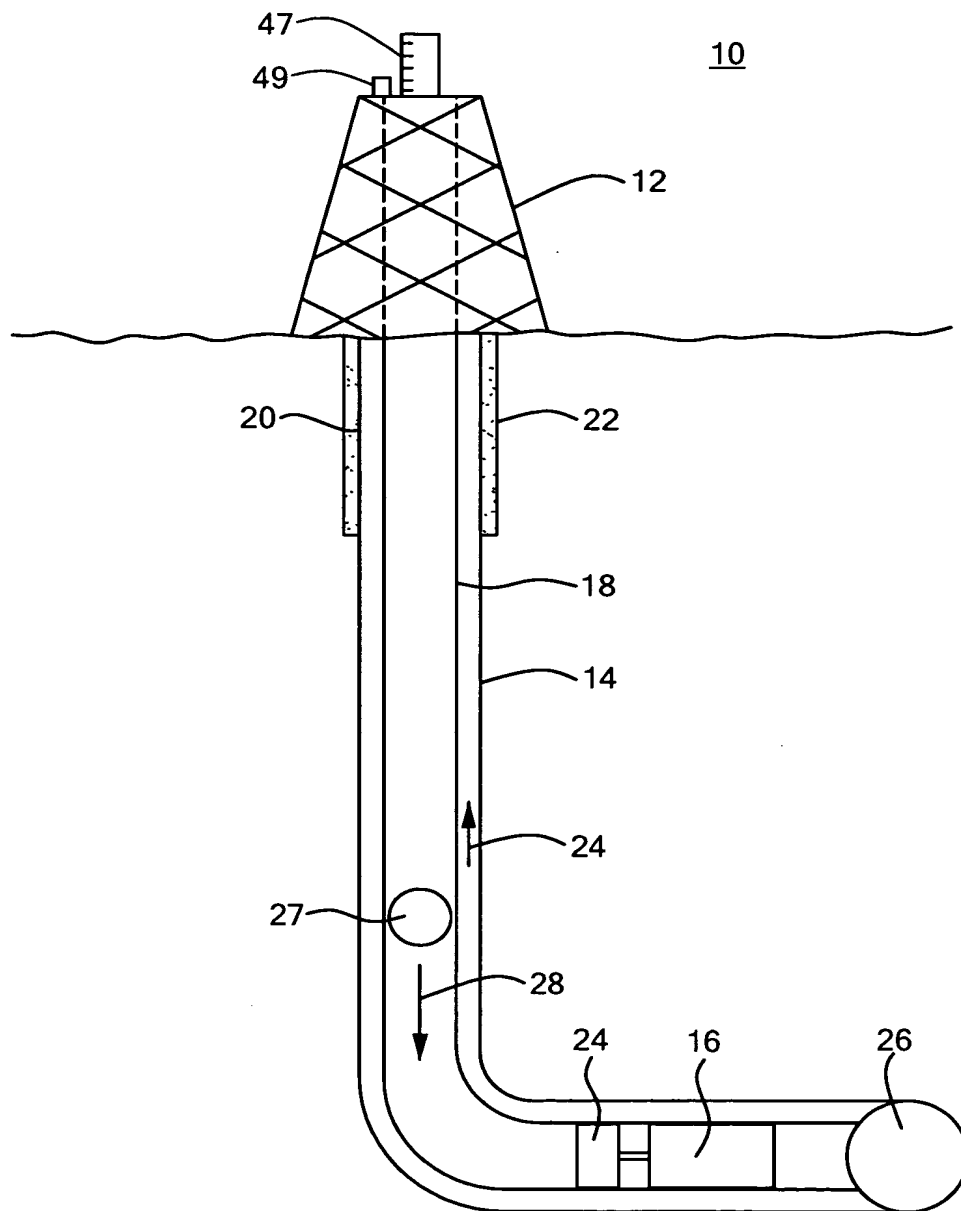


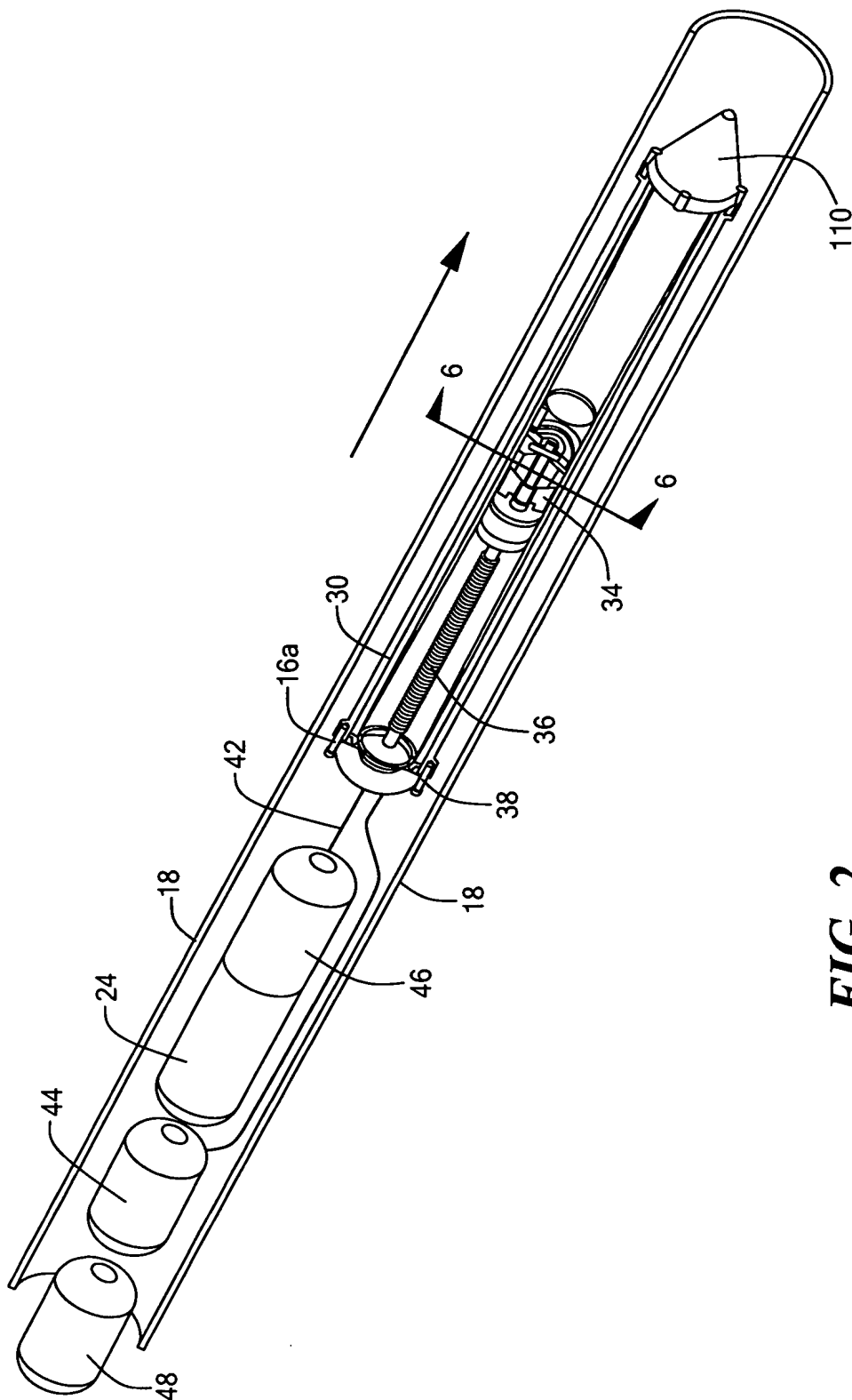


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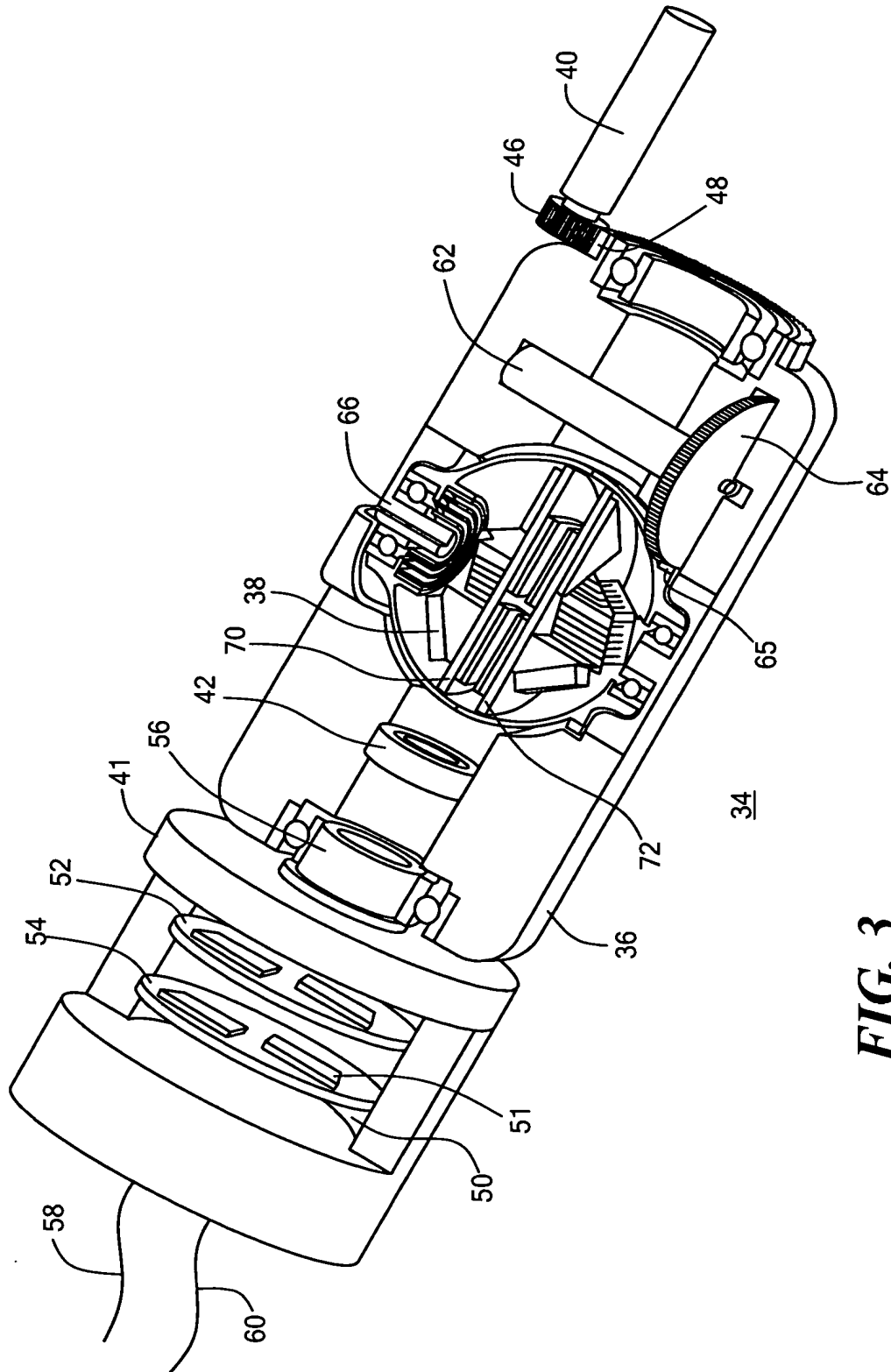
**FIG. 1**

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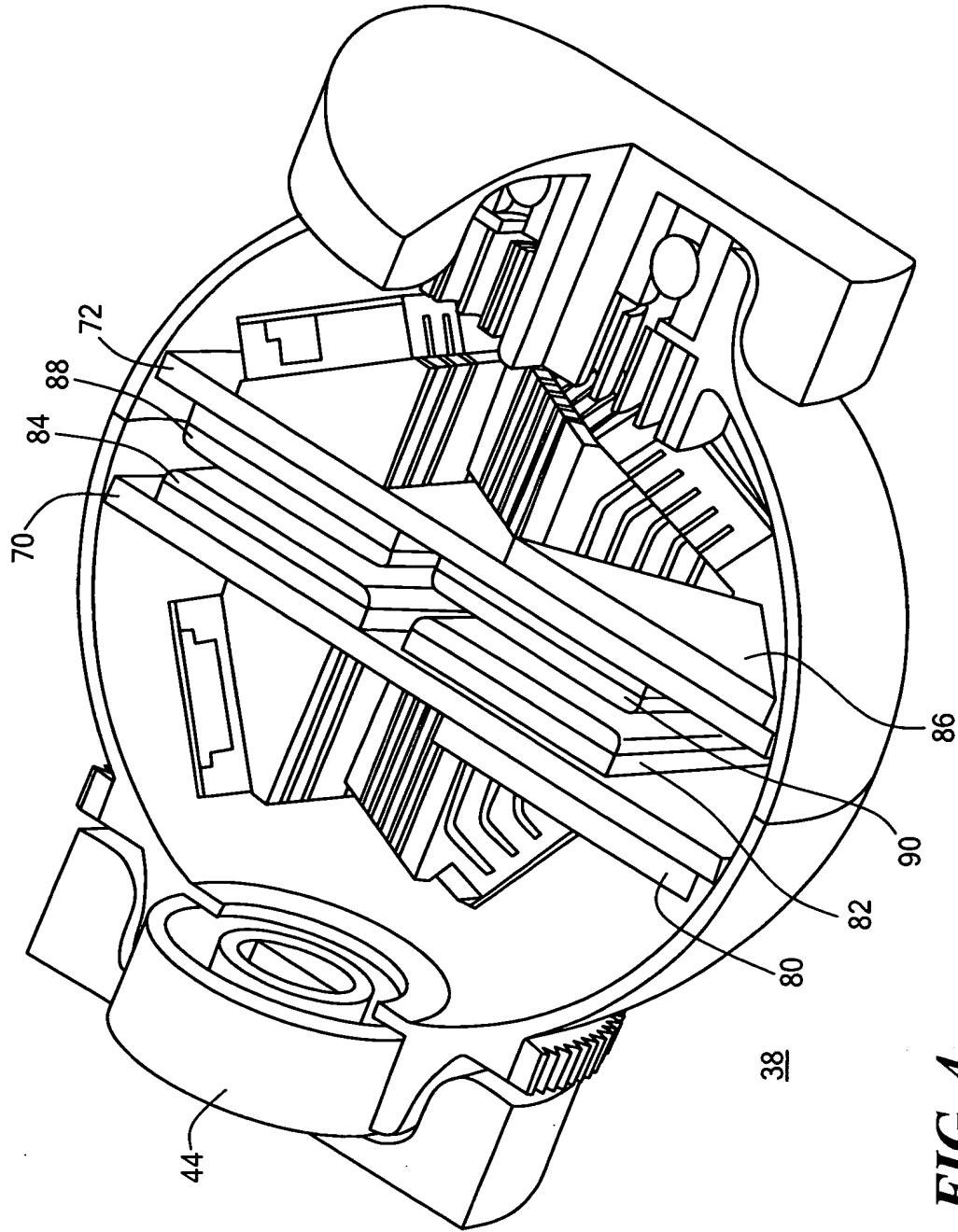
**FIG. 2**

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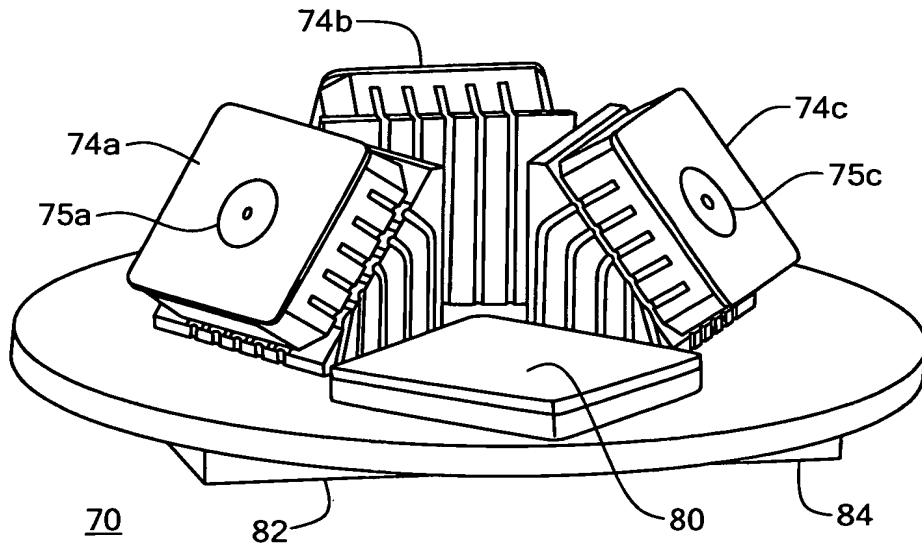


**FIG. 3**

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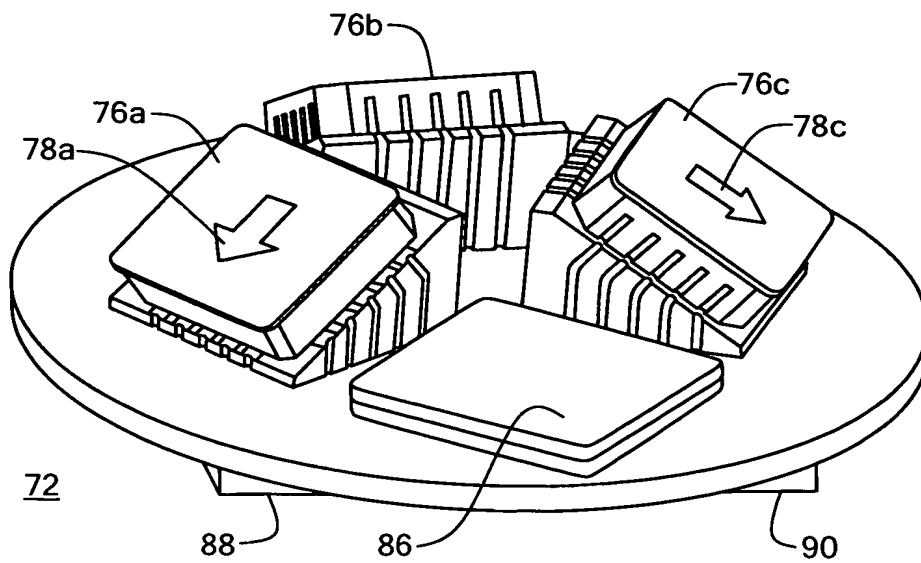


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Accel Board Assembly

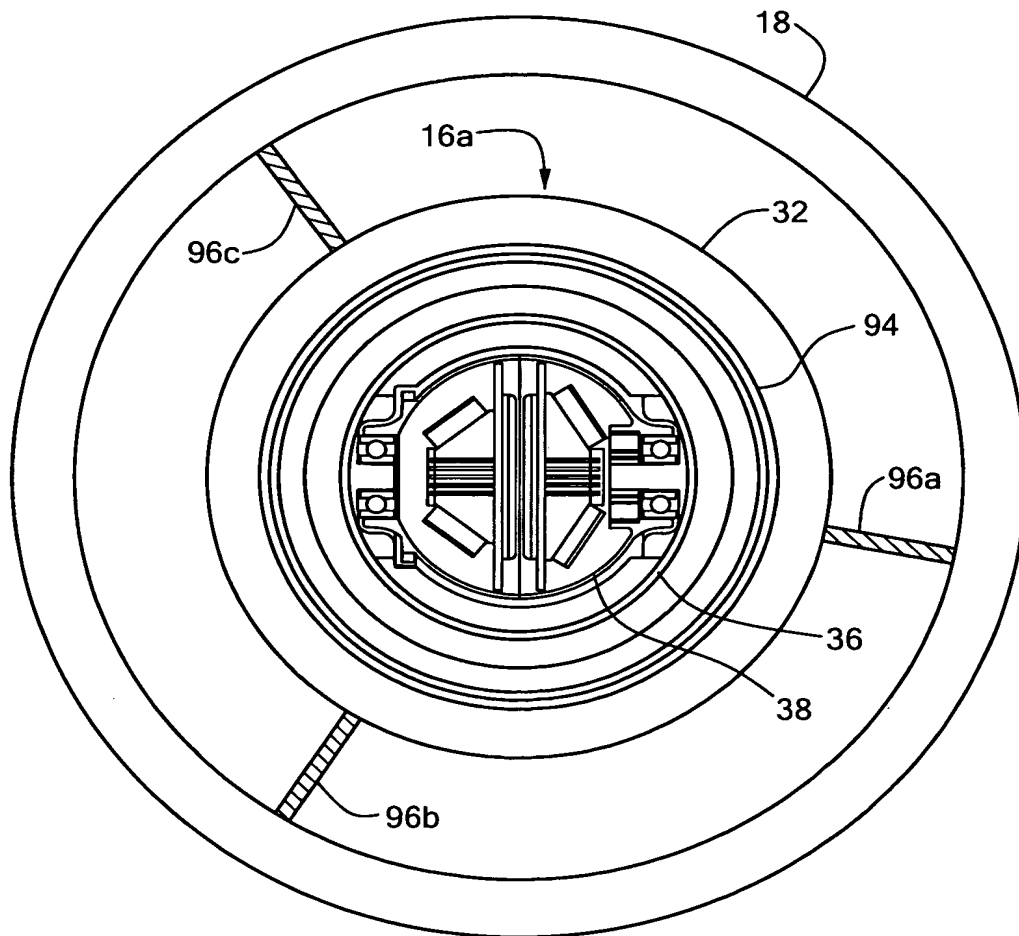
**FIG. 5A**



Gyro Board Assembly

**FIG. 5B**

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**FIG. 6**

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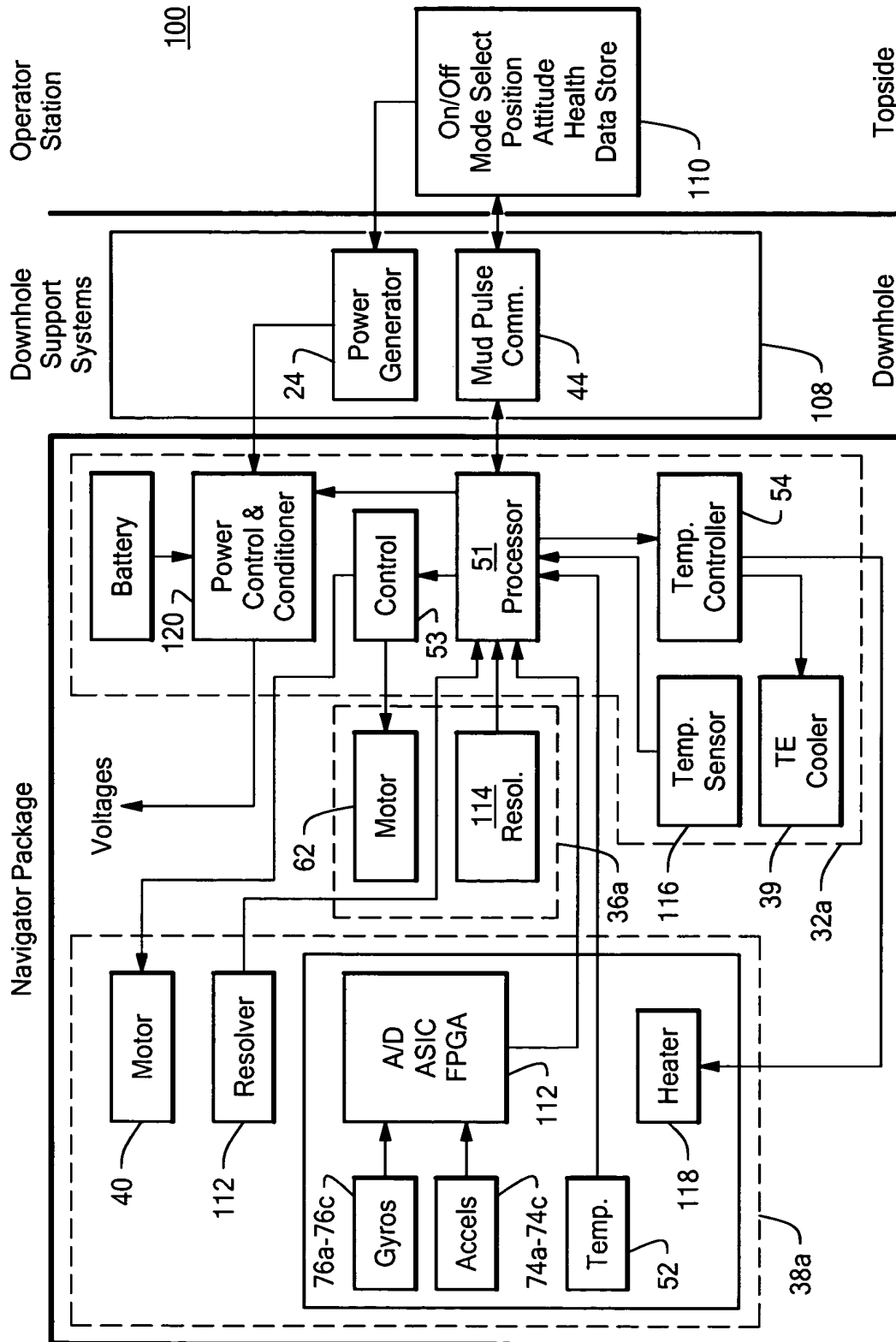
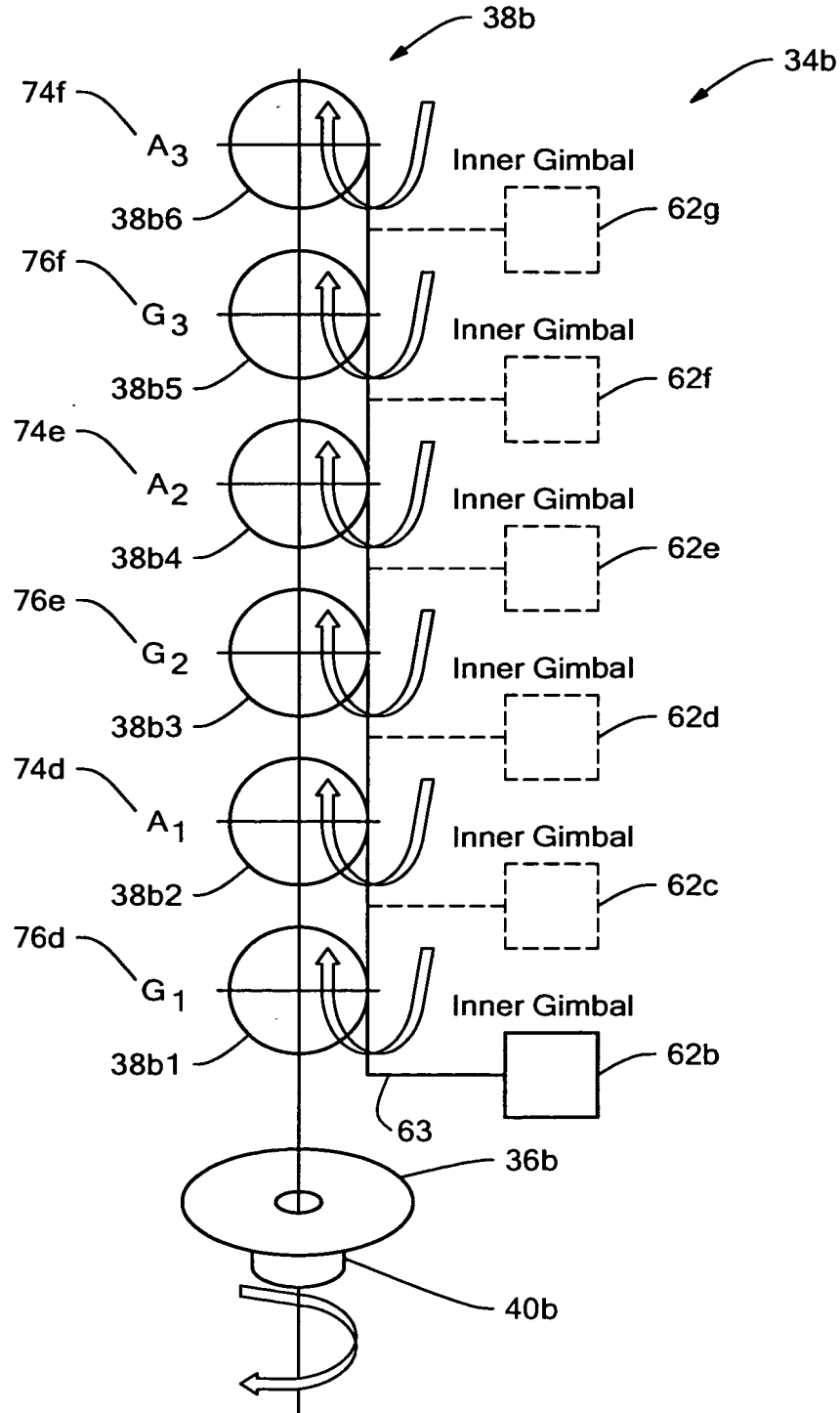


FIG. 7

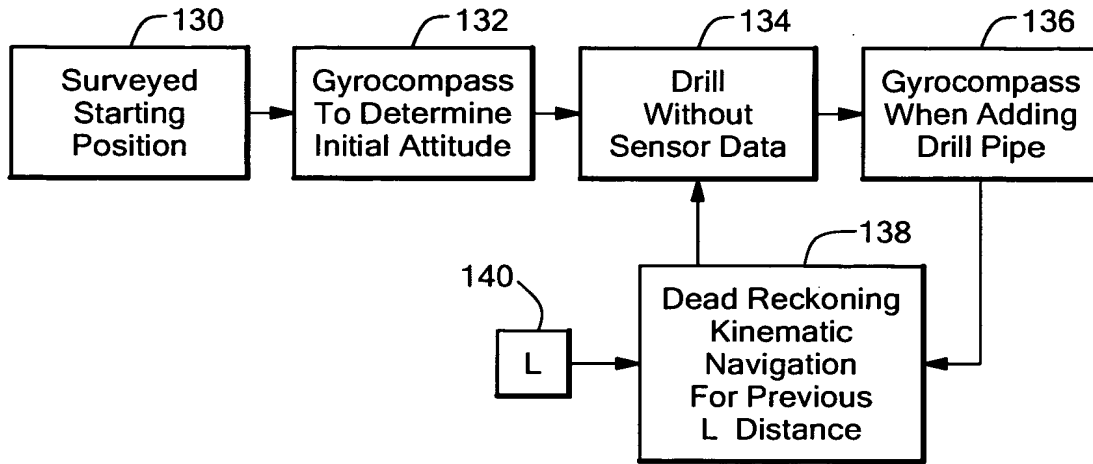
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**FIG. 8**

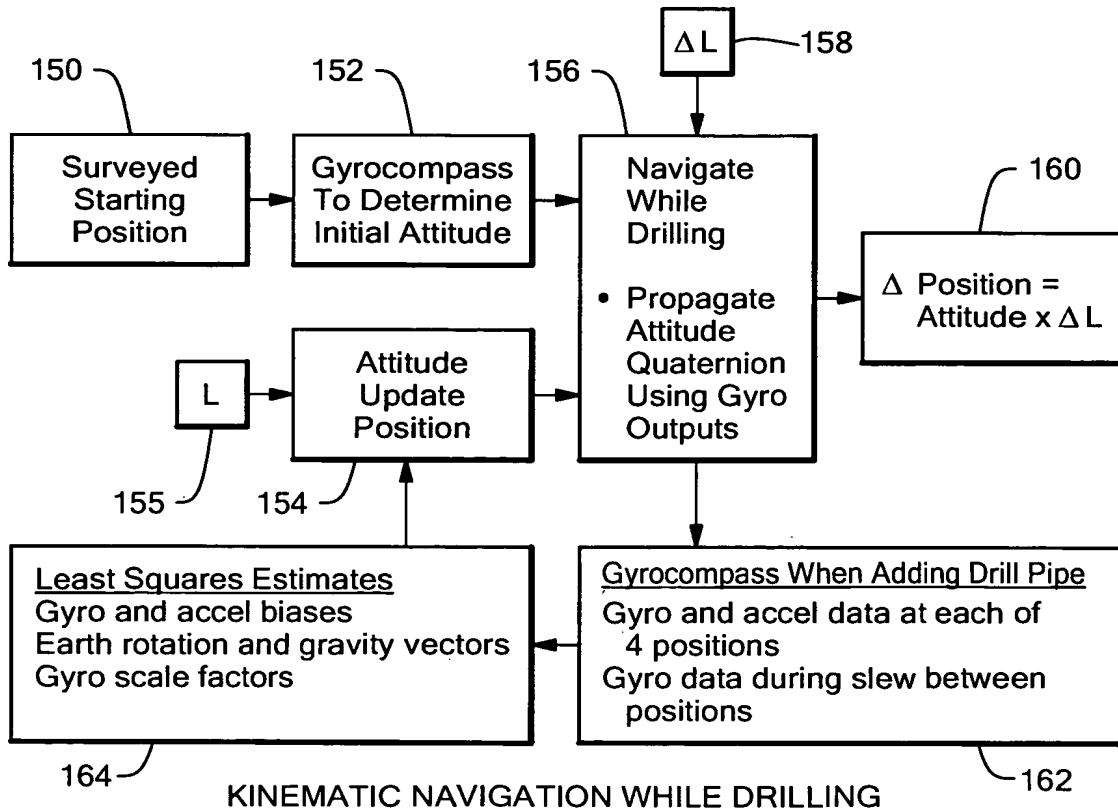


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DEAD RECKONING FOR KINEMATIC NAVIGATION  
WHILE DRILLING BETWEEN GYROCOMPASSES

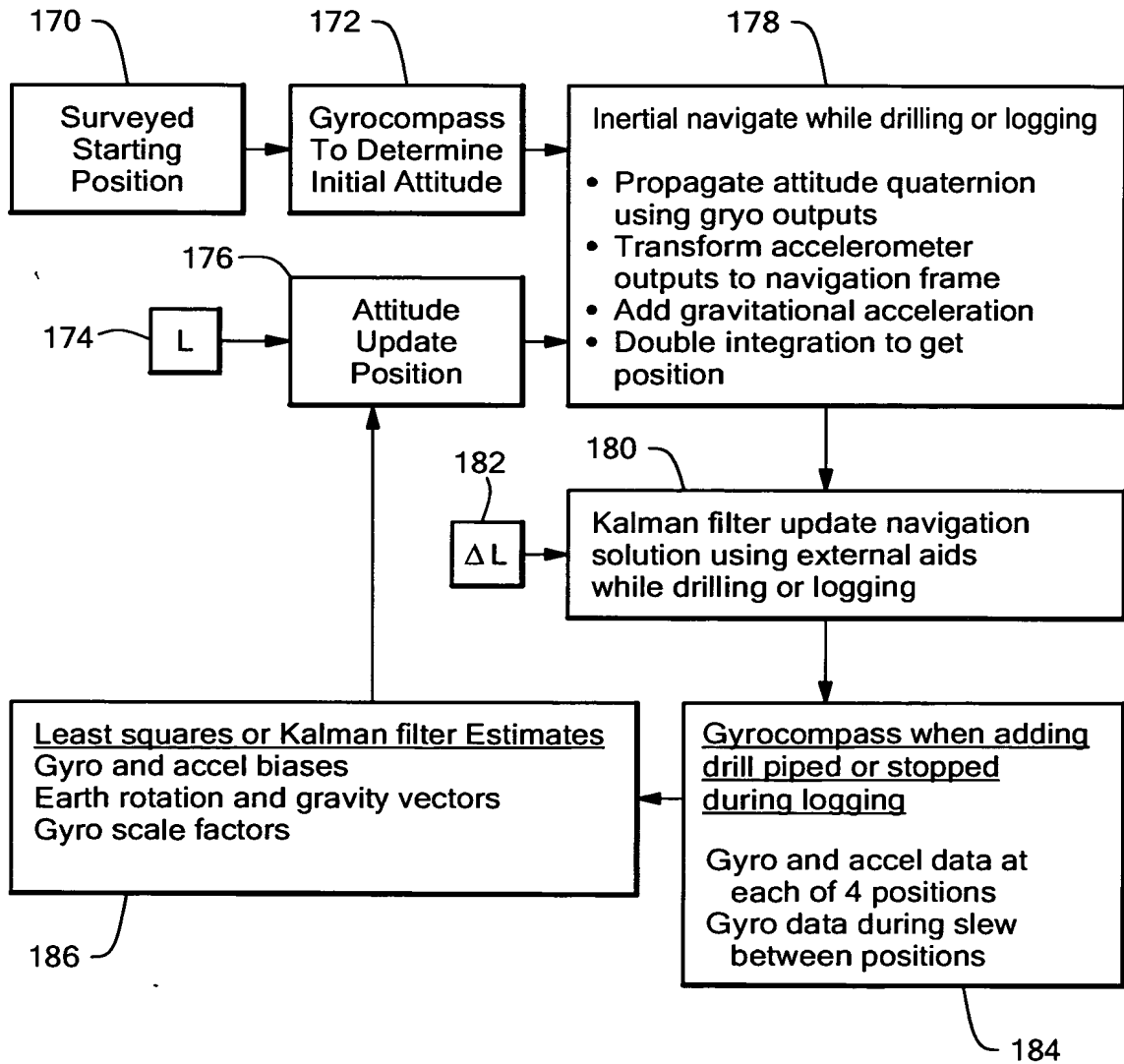
**FIG. 9**



KINEMATIC NAVIGATION WHILE DRILLING

**FIG. 10**

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INERTIAL NAVIGATION WHILE DRILLING OR LOGGING

**FIG. 11**